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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/552,249	07/27/2006	Douglas Bryan Grotjahn	D-3093	8942
	7590 04/02/200 BUYAN & MULLIN	EXAMINER		
4 VENTURE, SUITE 300			VIJAYAKUMAR, KALLAMBELLA M	
IRVINE, CA 92618			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			04/02/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/552,249	GROTJAHN ET AL.
Office Action Summary	Examiner	Art Unit
	KALLAMBELLA VIJAYAKUMAR	1793
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period of the specified period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
<ol> <li>Responsive to communication(s) filed on <u>07/2</u></li> <li>This action is <b>FINAL</b>. 2b) ☐ This action is <b>FINAL</b>.</li> <li>Since this application is in condition for alloward closed in accordance with the practice under Exercise.</li> </ol>	action is non-final.  nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-27 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-12,15-21 and 24-27 is/are rejected. 7) ☐ Claim(s) 13,14,22 and 23 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the I drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority document</li> <li>2. Certified copies of the priority document</li> <li>3. Copies of the certified copies of the priority application from the International Bureau</li> <li>* See the attached detailed Office action for a list</li> </ul>	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☑ Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)	ate
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>08/01/2006</u> .	5) ☐ Notice of Informal F 6) ☐ Other:	atent Application

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## **DETAILED ACTION**

This is 371 of PCT/US04/10280 filed 04/02/2004.

- Applicants claim the benefit of US Provisional 60/460,551 filed 4/4/2003 is acknowledged.
- The examiner has considered the IDS filed 08/01/2006.

Claim Rejections - 35 USC § 102

Claim Rejections - 35 USC § 103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.

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- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-4, 6-12, 15-21 and 24-27 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Grotjahn et al (Angew Chem Int Ed, 2001; IDS-08/01/2006).

Grotjahn teaches a metal-ligand catalyst of CpRu-bis (pirydyl-imdizolium) for antimarkonikov hydration of terminal alkynes (Pg-3884; Scheme-1). The reactions facilitated by the complex included reaction between water and 1-hexyne forming hexanol (Pg-3885-3886; Pg-3885, Cl-1, Para-4). With regard to the characteristics in claims 1, 10 and 15-16, the prior art composition is either same or substantially same as that claimed by the applicants and will possess same characteristics. The process and reaction steps meet the limitation of method steps in the claims. With regard to the characteristics in claims 20-21 and 24-26, the prior art composition is either same or substantially same as that claimed by the applicants and will possess same characteristics. The % yields in the reaction process meet the limitation of claim-27 (Pg-3885-3886). All the limitations of the instant claims are met.

The reference is anticipatory.

In the alternative that the disclosure by Grotchen et al be insufficient to anticipate the instant claims, the instant claimed composition and method steps nonetheless would have been obvious to a person of ordinary skilled in the art over the disclosure because the reference

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teaches each of the claimed ingredients within the composition and a method of using It. The burden is upon the applicant to prove otherwise. In re Fitzgerald, 619 F.2d 67, 205 USPQ594 (CCPA 1980). [MPEP 2112 [R-3-V].

2. Claims 1-2, 4-5 and 8 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Nagy et al (US5,637,660).

Nagy et al teach the composition of bis(2-pyridinoxy)titanium dichloride and 5,7,-dichloro-2-methyl-8-quinolinol (Ex 1 and 3). With regard to the characteristics in claims 1, the prior art composition is either same or substantially same as that claimed by the applicants and will possess same characteristics. All the limitations of the instant claims are met.

The reference is anticipatory.

In the alternative that the disclosure by Nagy et al be insufficient to anticipate the instant claims, the instant claimed composition nonetheless would have been obvious to a person of ordinary skilled in the art over the disclosure because the reference teaches each of the claimed ingredients within the composition. The burden is upon the applicant to prove otherwise. In re Fitzgerald, 619 F.2d 67, 205 USPQ594 (CCPA 1980). [MPEP 2112 [R-3-V].

## Allowable Subject Matter

Claims 13-14 and 22-23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art of record neither teaches nor fairly suggest the instant composition and a method of using it.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KALLAMBELLA VIJAYAKUMAR whose telephone number is (571)272-

1324. The examiner can normally be reached on M-F 07-3.30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stanley Silverman can be reached on 5712721358. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/KMV/

March 30, 2009.

/Stanley Silverman/

Supervisory Patent Examiner, Art Unit 1793